ELSEVIER

Journal of Magnetism and Magnetic Materials 156 (1996) 437–447

journal of magnetism and magnetic materials

Author index to volume 156

Afonso, C.N., see Missana, T. 281
Alfonso, C., see Thomas, O. 31
Almeida, B.G., J.B. Sousa, J. Colino, Y. Schuller, R. Schad, V.V. Moshchalkov and Y. Bruynseraede, s–d Electron scattering as a sensitive probe to study Fe/Cr multilayer structural differences (MBE/sputtered samples) 399
Almeida, B.G., see de Azevedo, M.M.P. 357
Amaral, V.S., see de Azevedo, M.M.P. 357
Andrés, J.P., see Riveiro, J.M. 243
Andrieu, S., see Barbara, A. 111
Aoki, Y., see Kobayashi, Y. 362
Aoki, Y., see Sato, H. 247
Aoyagi, Y., see Yamazaki, H. 135
Armand, C., see Raquet, B. 197
Arnaudas, J.I., A. del Moral, M. Ciria, G.J. Tomka, C. de la Fuente, P.A.J. de Groot, R.C.C. Ward and M.R. Wells, Magnetoelastic study of Ho/Y and Ho/Lu metallic superlattices 421
Arons, R.R., see Rücker, U. 269
Asada, H., see Matsuyama, K. 301
Asano, Y., see Itoh, H. 343
Atkinson, R., P.M. Dodd, N.F. Kubrakov, A.K. Zvezdin and K.A. Zvezdin, Spin-dependent scattering and magneto-optical properties of GMR materials 169
Auric, P., see Richomme, F. 181

Babinsky, M., see Majkova, E. 415
Badawi, K., see Thomas, O. 31
Bader, S.D. and D. Li, Magneto-optical and photoemission studies of ultrathin wedges 153
Baker, A.M., A. Cerezo and A.K. Petford-Long, Interfacial diffusion studies in Co–Pd layered films 83
Bakonyi, I., E. Tóth-Kádár, T. Becsei, J. Tóth, T. Tarnóczi, Á. Cziráki, I. Gerőcs, G. Nabiyouni and W. Schwarzacher, Giant magnetoresistance in self-supporting electrodeposited Ni–Cu/Cu multilayers 347
Bangert, D.E. and H.P. Hughes, The optical response of magnetic gratings 189
Barallier, L., see Thomas, O. 31
Barbara, A., J.M. Tonnerre, M.C. Saint-Lager, D. Raoux, S. Andrieu, M. Piecuch, E. Elkaïm and J.P. Lauriat, Structural investigation of metallic superlattices using X-ray anomalous scattering 111
Barbara, B., Novel magnetic structures and nanostructures 123
Bardou, N., B. Bartenlian, F. Rousseaux, D. Decanini, F. Carcenac, E. Cambril, M.F. Ravet, C. Chappert, P. Veillet, P. Beauvillain, R. Mégy, W. Geerts and J. Ferré, Elaboration and magneto-optical study of submicron magnetic structures in Au/Co/Au ultrathin films 139
Barnaś, J. and Y. Bruynseraede, Influence of the quantum size effect and interface roughness on the giant magnetoresistance in ultrathin magnetic layered structures 287
Barnas, J., see Schad, R. 339
Barnas, J., see Schad, R. 341
Barnaś, J., see Gladyszewski, G. 381
Bartenlian, B., see Bardou, N. 139
Bartenlian, B., see Bounouh, A. 233
Baszyński, J., B. Szymański and T. Toliński, Evidence of the oscillations in the interlayer coupling of Co sublayers across Co–Zr amorphous-like spacers, from M(H) curves 79
Bauer, E., T. Duden, H. Pinkvos, H. Poppa and K. Wurm, LEEM studies of the microstructure and magnetic domain structure of ultrathin films 1
Bauer, G.E.W., see Fjærestad, J.O. 387
Bauer, G.E.W., see Schep, K.M. 385
Baxter, D.V., G.U. Sumanasekera and J.P. Carini, Transport anisotropy and dimensional crossover in Ag/Ge multilayers 359
Beaurepaire, E., see Garreau, G. 81
Beauvillain, P., see Bardou, N. 139
Beauvillain, P., see Bounouh, A. 233
Beauvillain, P., see Train, C. 87
Bebenin, N.G., see Ustinov, V.V. 227
Becsei, T., see Bakonyi, I. 347
Beke, D.L., see Daróczi, L. 417
Beliën, P., see Gladyszewski, G. 381
Beliën, P., see Schad, R. 339
Beliën, P., see Schad, R. 341
Bellouard, C., see Majkova, E. 415
Bender, H., see De Boeck, J. 148
Bessière, M., see Michel, A. 23
Bessiere, M., see Schad, R. 339
Beuken, J.M., see Piraux, L. 317
Bijker, M.D., see Van Drent, W.P. 309
Bland, J.A.C., R.P. Cowburn, J. Ferré, J.S. Gray, R. Lopušník, M. Nývlt, V. Prosser, R. Urban and Š.

Višňovský, Magneto-optical studies of ultrathin MBE grown Fe/Ag(001) wedges 177
Bland, J.A.C., see Buckley, M.E. 211
Bland, J.A.C., see Ercole, A. 121
Bland, J.A.C., see Fujimoto, T. 365
Bland, J.A.C., see Patel, M. 53
Blythe, H.J., see Fedosyuk, V.M. 345
Blythe, H.J., see Fedosyuk, V.M. 77
Boardman, A.D., see Boyle, J.W. 33
Boardman, A.D., see Cowen, J.A. 163
Bodart, F., see Gladyszewski, G. 381
Boher, P., see Nývlt, M. 175
Booth, J.G., see Boyle, J.W. 33
Booth, J.G., see Cowen, J.A. 163
Booth, K.M., see Boyle, J.W. 33
Booth, K.M., see Cowen, J.A. 163
Borghs, G., see De Boeck, J. 148
Bouarab, S., see Noguera, A. 21
Bounouh, A., B. Bartenlian, P. Beauvillain, C. Chappert, R. Megy, C. Train, P. Veillet and D. Weller, Co/V interface anisotropy and interlayer exchange coupling in $(V/Co)_n/Au(111)$ stackings 233
Boyle, J.W., J.G. Booth, J.A. Cowen, A.D. Boardman, K.M. Booth and R. Krishnan, Brillouin light scattering study of Ni/Pt multilayers 33
Boyle, J.W., see Cowen, J.A. 163
Brand, R.A., see Richomme, F. 195
Brand, R.A., see Tappert, J. 58
Brataas, A., see Fjærestad, J.O. 387
Bruynseraede, C., see De Boeck, J. 148
Bruynseraede, Y., see Almeida, B.G. 399
Bruynseraede, Y., see Barnaś, J. 287
Bruynseraede, Y., see Gladyszewski, G. 381
Bruynseraede, Y., see Laidler, H. 332
Bruynseraede, Y., see Schad, R. 339
Bruynseraede, Y., see Schad, R. 341
Bruynseraede, Y., see Temst, K. 109
Brydson, R., see Coast-Smith, L. 17
Bryn-Jacobsen, C., see Goff, J.P. 263
Buckley, M.E., S. Hope, F.O. Schumann and J.A.C. Bland, Variations in the magnetic properties of ultrathin Co films due to the adsorption of non-magnetic metal atoms at the Co/vacuum interface 211

Cadeville, M.C., see Michel, A. 25
Cambril, E., see Bardou, N. 139
Carbone, C., E. Vescovo, R. Kläsges, D.D. Sarma and W. Eberhardt, Magnetic quantum size effects in Cu films on Co(100) 259
Carcenac, F., see Bardou, N. 139
Carini, J.P., see Baxter, D.V. 359
Carrière, B., see Garreau, G. 81
Castro, J., see Robinson, S.J. 133
Cerezo, A., see Baker, A.M. 83
Chakarian, V., Y.U. Idzerda, H.J. Lin, C.J. Gutierrez, G.A. Prinz, G. Meigs and C.T. Chen, Element-specific vector magnetometry of buried layers 265
Chappert, C., see Bardou, N. 139
Chappert, C., see Bounouh, A. 233
Chappert, C., see Train, C. 87
Charaï, A., see Thomas, O. 31
Cheloglu, O., see Georgescu, V. 27
Chen, C.T., see Chakarian, V. 265
Chida, I., see Matsuyama, K. 301
Ciccacci, F., see De Rossi, S. 107
Ciria, M., see Arnaudas, J.I. 421
Ciria, M., see Tomka, G.J. 431
Coast-Smith, L., R. Brydson, P. Tsakiropoulos, D. Dunford and C.M. Ward-Close, Synthesis and characterisation of titanium/aluminium nanolaminates 17
Cochran, J.F., see Heinrich, B. 215
Coehoorn, R., see Lenssen, K.-M.H. 63
Colaris, A.H.J., see van Alphen, E.A.M. 29
Colino, J., see Almeida, B.G. 399
Conyers, J.S., M.J. Hall, A.L. Greer and R.E. Somekh, The effect of diffusion-induced stress on the magnetic properties of c-Ni/a-$Ni_{50}Zr_{50}$ multilayers 419
Cottenier, S., see Swinnen, B. 71
Cowburn, R.P., see Bland, J.A.C. 177
Cowen, J.A., J.G. Booth, J.W. Boyle, A.D. Boardman, K.M. Booth and F. Schreiber, CoCu(111) superlattices investigated by Brillouin light scattering 163
Cowen, J.A., see Boyle, J.W. 33
Cowlam, N., see Hong, J.K. 55
Cowlam, N., see Speakman, J. 411
Cowley, R.A., see Goff, J.P. 263
Crampin, S., see De Rossi, S. 107
Czapkiewicz, M., see Jędryka, E. 38
Czigány, Zs., see Daróczi, L. 417
Cziráki, Á., see Bakonyi, I. 347

Daboo, C., see Ercole, A. 121
Daboo, C., see Fujimoto, T. 365
Daboo, C., see Patel, M. 53
Daróczi, L., D.L. Beke, G. Langer, Gy. Radnóczi and Zs. Czigány, Effect of low hydrostatic pressures on the solid state reactions in multilayers 417
Daykin, A.C., R.C. Doole and J.P. Jakubovics, Mapping the magnetic induction in Co/Cr/Co trilayers using Foucault images formed in the transmission electron microscope 43
De Azevedo, M.M.P., B.G. Almeida, V.S. Amaral, J.B. Sousa, P.P. Freitas and R. Krishnan, Anomalous electrical resistivity in metallic multilayer systems and interfacial structural changes 357
De Boeck, J., R. Oesterholt, H. Bender, A. Van Esch, C. Bruynseraede, C. Van Hoof and G. Borghs, Controlled formation of nanoscale MnAs magnetic clusters in GaAs 148
Decanini, D., see Bardou, N. 139
Dederichs, P.H., see Lang, P. 229
De Groot, D.G., see Temst, K. 109
De Groot, P.A.J., see Arnaudas, J.I. 421
De Groot, P.A.J., see Tomka, G.J. 431

De Haan, P., see Tsutsumi, K. 327
Dehl', A.K., see Ustinov, V.V. 179
De Jonge, W.J.M., see Swagten, H.J.M. 329
De Jonge, W.J.M., see de Vries, J.J. 257
De Jonge, W.J.M., see van Alphen, E.A.M. 29
Dekoster, J., see Swinnen, B. 71
De la Fuente, C., see Arnaudas, J.I. 421
Del Moral, A., see Arnaudas, J.I. 421
Demangeat, C. and V.M. Uzdin, Hubbard and Anderson periodic models for the description of imperfect low-dimensional FeCr magnetic systems 202
Demangeat, C., see Elmouhssine, O. 199
Demangeat, C., see Krüger, P. 91
Demangeat, C., see Moraitis, G. 250
Demangeat, C., see Noguera, A. 21
Demokritov, S., see Rücker, U. 269
Demuynck, S., see Swinnen, B. 71
Den Broeder, F.J.A., see Kohlhepp, J. 261
De Rossi, S., S. Crampin and F. Ciccacci, Empty electron states in ultrathin Fe/Au(100) films 107
Despres, J.F., see Piraux, L. 317
De Veirman, A.E.M., see Lenssen, K.-M.H. 63
De Vries, J.J., A.A.P. Schudelaro, R. Jungblut and W.J.M. de Jonge, Oscillatory behaviour of the interlayer coupling with the thickness of the Cu cap layer in Co/Cu(100) 257
Dinia, A., see Persat, N. 335
Dinia, A., see Persat, N. 371
Dinia, A., see Zoll, S. 231
Dobrovitski, V.V. and A.K. Zvezdin, Macroscopic quantum tunnelling of solitons in ultrathin films 205
Dodd, P.M., see Atkinson, R. 169
Donkers, J.J.T.M., see Lenssen, K.-M.H. 63
Donovan, P., see Harkins, J.V. 224
Doole, R.C., see Daykin, A.C. 43
Doole, R.C., see Missana, T. 281
Douheret, J.S., see Fnidiki, A. 41
Drchal, V., see Kudrnovský, J. 245
Dreyssé, H., see Moraitis, G. 250
Dreyssé, H., see Noguera, A. 21
Dubois, S., see Piraux, L. 317
Duden, T., see Bauer, E. 1
Dufour, C., K. Dumesnil, Ph. Mangin, G. Marchal and M. Hennion, Shifts of Curie temperature of epitaxial dysprosium films 425
Dumesnil, K., see Dufour, C. 425
Dunford, D., see Coast-Smith, L. 17
Dupas, C., see Kolb, E. 377

Eberhardt, W., see Carbone, C. 259
Ebert, H., see Guo, G.Y. 173
Ebert, H., see Guo, G.Y. 289
Eisenberg, M., see Tsutsumi, K. 327
Elkaïm, E., see Barbara, A. 111
Elmers, H.J., see Zoll, S. 231
Elmouhssine, O., M. Freyss, P. Krüger, J.C. Parlebas, C. Demangeat, J. Khalifeh, A. Vega and A. Mokrani, Spin-polarization of thin Mn films on Fe(107) 199
Elmouhssine, O., see Krüger, P. 91
Emmerson, C., see Pape, I. 373
Emmerson, C.M. and T.-H. Shen, A study of Co/Cu multilayer growth on Si(111) with silicide buffer layers 15
Emoto, T., N. Hosoito and T. Shinjo, Spin penetration in Au layers: ^{119}Sn Mössbauer study of Co/Au multilayers 47
Emoto, T., see Hosoito, N. 325
Emoto, T., see Kobayashi, Y. 45
Engel, B.N., see Marlière, C. 209
Ercole, A., T. Fujimoto, M. Patel, C. Daboo, R.J. Hicken and J.A.C. Bland, Direct measurement of magnetic anisotropies in epitaxial FeNi/Cu/Co spin-valve structures by Brillouin light scattering 121
Ercole, A., see Patel, M. 53
Eriksson, O., see Hjortstam, O. 85
Evetts, J.E., see Hall, M.J. 119

Falco, C.M., see Marlière, C. 209
Farle, M., see Garreau, G. 81
Fedosyuk, V.M., D. Ravinder and H.J. Blythe, The influence of anneal and composition on the superparamagnetism of inhomogeneous CuCo films 77
Fedosyuk, V.M., O.I. Kasyutich, D. Ravinder and H.J. Blythe, Giant magnetoresistance in granular electrodeposited CuCo films 345
Feng, J.W., F.M. Pan, G.J. Jin, S.S. Kang, A. Hu and S.S. Jiang, Investigation of interlayer-exchange-dominated surface spin waves in Ni/Ag multilayers 241
Feng, J.W., M. Lu, S.S. Kang, F.M. Pan, G.J. Jin, A. Hu and S.S. Jiang, Exchange coupling in sputtered Co/Ag(111) multilayers with in-plane uniaxial anisotropy 239
Feng, J.W., see Pan, F.M. 49
Fermon, C., see Train, C. 87
Ferré, J., see Bardou, N. 139
Ferré, J., see Bland, J.A.C. 177
Ferré, J., see Nývlt, M. 175
Fert, A., see Piraux, L. 317
Fert, A.R., see Raquet, B. 197
Filipozzi, L., see Piraux, L. 317
Fischer, H., see Michel, A. 23
Fischer, H., see Schad, R. 339
Fjærestad, J.O., A. Brataas and G.E.W. Bauer, Semiclassical scattering theory of parallel transport in metallic magnetic multilayers 387
Fnidiki, A., J.S. Douheret, J. Teillet, H. Lassri and R. Krishnan, Mössbauer study of Fe/Pt multilayers 41
Fnidiki, A., see Richomme, F. 181
Freijo, J.J., see Prados, C. 369
Freitas, P.P., see de Azevedo, M.M.P. 357
Freyss, M., see Elmouhssine, O. 199

Fujimori, H., S. Mitani and S. Ohnuma, Tunnel-type GMR in Co–Al–O insulated granular system – Its oxygen-concentration dependence 311
Fujimori, H., see Mitani, S. 7
Fujimori, H., see Oomi, G. 402
Fujimoto, T., M. Patel, J.A.C. Bland, E. Gu and C. Daboo, Spin-flip scattering in uncoupled single $Fe_{20}Ni_{80}$/Cu/Co trilayers with uniaxial anisotropy 365
Fujimoto, T., see Ercole, A. 121
Fujimoto, T., see Patel, M. 53
Fujitani, D., see Katayama, T. 171
Fujiwara, Y., see Umeda, K. 75

Gallego, J.M., S. Kim, D. Lederman and I.K. Schuller, Oscillations of the transport properties in Ni/Co superlattices 397
Gallego, J.M., see González, J.M. 145
García, D., see Prados, C. 369
Garreau, G., V. Schorsch, E. Beaurepaire, F. Scheurer, B. Carrière and M. Farle, Growth and magnetic properties of Tb deposited on fcc Co 81
Gautier, F., see Stoeffler, D. 114
Geerts, W., see Bardou, N. 139
Geerts, W., see Katayama, T. 171
Geerts, W., see Katayama, T. 158
Gehring, G.A., see Roberts, D.J. 293
Gehring, G.A., see Robinson, S.J. 133
George, B., see Majkova, E. 415
Georgescu, V., V. Mazur and O. Cheloglu, Preparation and magnetic properties of electrodeposited Co/Pt multilayers 27
Geröcs, I., see Bakonyi, I. 347
Gibbs, M.R.J., see Hatton, H.J. 67
Gibbs, M.R.J., see Hong, J.K. 55
Giergiel, J., see Shen, J. 104
Gilles, B., see Thomas, O. 31
Givord, D., see González, J.M. 145
Gladyszewski, G., J. Barnaś, K. Temst, G. Verbanck, R. Schad, P. Beliën, E. Kunnen, F. Bodart and Y. Bruynseraede, Modification of structure, electric and magnetic properties of epitaxially grown Ag(001)/Fe(001) superlattices 381
Gladyszewski, G., see Schad, R. 341
Goff, J.P., C. Bryn-Jacobsen, R.A. Cowley, D.F. McMorrow, R.C.C. Ward and M.R. Wells, The magnetic structure and interactions in Nd/Pr superlattices 263
Goiran, M., see Raquet, B. 197
González, J.M., R. Smirnov-Rueda, J.M. Gallego, D. Givord and F. Robaut, Magnetization processes in ultrathin films with high magnetization and perpendicular anisotropy 145
Gray, J.S., see Bland, J.A.C. 177
Greaves, S.J., see O'Grady, K. 253
Greer, A.L., see Conyers, J.S. 419
Greer, A.L., see Speakman, J. 411
Gregg, J., see Ounadjela, K. 267
Greig, D., see Kolb, E. 377
Greig, D., see Xu, J. 379
Greig, D., see Xu, J. 69
Griessen, R.P., see Temst, K. 109
Groot Koerkamp, M. and T. Rasing, Giant nonlinear Kerr effects 213
Gros, C., see Richter, J. 433
Grünberg, P., see Mitani, S. 7
Grünberg, P., see Rücker, U. 269
Grünberg, P., see Takanashi, K. 237
Grundy, P.J., see Tatnall, C.J. 61
Gu, E., see Fujimoto, T. 365
Guo, G.Y. and H. Ebert, An ab initio investigation of the hyperfine field anisotropy in Fe and Co multilayers 289
Guo, G.Y. and H. Ebert, On the origins of the enhanced magneto-optical Kerr effect in ultrathin Fe and Co multilayers 173
Gutierrez, C.J., see Chakarian, V. 265

Haga, Y., see Sugawara, A. 151
Hall, M.J., E.D. Whitton, D.B. Jardine, R.E. Somekh, J.E. Evetts and J.A. Leake, The effect of annealing on the giant magnetoresistance and magnetisation of sputter-deposited Co/Cu multilayers 119
Hall, M.J., see Conyers, J.S. 419
Hall, M.J., see Kok, K.Y. 51
Hama, S., see Ueda, Y. 353
Hamada, K., see Uchiyama, K. 427
Hamada, K., see Uchiyama, K. 429
Harbison, J.P., see Tanaka, M. 306
Hardiman, M., see Nazir, Z.H. 435
Harkins, J.V. and P. Donovan, Interface pinning in gadolinium/molybdenum magnetic multilayers 224
Hase, T.P.A., see Laidler, H. 332
Hase, T.P.A., see Pape, I. 373
Hataya, N., see Ueda, Y. 350
Hatton, H.J. and M.R.J. Gibbs, Interface contributions to magnetostriction in transition metal based soft magnetic multilayers 67
Hatton, H.J., see Hong, J.K. 55
Hayashi, T., see Uchiyama, K. 429
Hayashi, Y., see Jyoko, Y. 35
Hehn, M., see Ounadjela, K. 267
Heinrich, B., J.F. Cochran, D. Venus, K. Totland, C. Schneider and K. Myrtle, Role of interface alloying in Fe whisker/Cr/Fe(001) structures, angular-resolved Auger electron and MOKE studies 215
Hennion, M., see Dufour, C. 425
Hernando, A., see Prados, C. 369
Hicken, R.J., see Ercole, A. 121
Hickey, B.J., see Laidler, H. 332
Hickey, B.J., see Pape, I. 373
Hickey, B.J., see Xu, J. 379
Hickey, B.J., see Xu, J. 69
Hirota, E., see Uchiyama, K. 427
Hirota, E., see Uchiyama, K. 429
Hjortstam, O., J. Trygg, J.M. Wills, B. Johansson and O. Eriksson, Giant surface layer relaxation for Be $(10\bar{1}0)$ 85

Ho, E.M. and A.K. Petford-Long, Magnetoresistance in sputtered Fe/Cr multilayer films 65
Holý, V., see Jergel, M. 117
Honda, S., see Nawate, M. 383
Hong, J.K., D. Spilsbury, N. Cowlam, H.J. Hatton and M.R.J. Gibbs, Optimisation of neutron reflectometry in the measurement of magnetic multilayers by means of 'invisible' spacer layers 55
Hope, S., see Buckley, M.E. 211
Hosoito, N., K. Mibu, T. Ono, T. Emoto and T. Shinjo, Relationship between magnetoresistance change and antiparallel magnetization estimated by neutron diffraction in giant magnetoresistance systems 325
Hosoito, N., see Emoto, T. 47
Hossain, S.A., B.H. Pirkle and M.R. Parker, Design and fabrication of GMR multilayers with enhanced thermal stability 303
Houdy, P., see Nývlt, M. 175
Howson, M.A., see Kolb, E. 377
Howson, M.A., see Xu, J. 379
Howson, M.A., see Xu, J. 69
Hu, A., see Feng, J.W. 239
Hu, A., see Feng, J.W. 241
Hu, A., see Pan, F.M. 49
Hucht, A. and K.D. Usadel, Characterization of the reorientation transition in classical Heisenberg models with dipole interaction 423
Hughes, H.P., see Bangert, D.E. 189
Hunt, J.A., see Speakman, J. 411

Idzerda, Y.U., see Chakarian, V. 265
Ikeda, S., see Matsuyama, K. 301
Ikeda, S., see Ueda, Y. 353
Imada, R., I. Maruyama, M. Jimbo and S. Tsunashima, Giant magnetoresistance effect in Co-rich NiFeCo/Cu multilayers 367
Inomata, K., S.N. Okuno, Y. Saito and K. Yusu, Oscillatory interlayer couplings as functions of a ferromagnetic metal layer and a semiconducting spacer in magnetic superlattices 219
Inomata, K., see Sato, H. 247
Inoue, J., see Itoh, H. 343
Inoue, J., see Maekawa, S. 315
Irie, Y., see Sakakima, H. 405
Ishibashi, K., see Yamazaki, H. 135
Ishida, I., see Uchiyama, K. 427
Ishida, I., see Uchiyama, K. 429
Ishii, H., see Oguri, A. 389
Itogawa, M., see Nawate, M. 383
Itoh, A., see Umeda, K. 75
Itoh, H., J. Inoue, Y. Asano and S. Maekawa, A theory of conductivity for perpendicular currents through a single random interface 343
Iwata, S., see Oikawa, S. 73

Jakubovics, J.P., see Daykin, A.C. 43
Jamet, J.P., see Nývlt, M. 175
Jantsch, W., see Wilamowski, Z. 207
Jardine, D.B., see Hall, M.J. 119
Jay, J.P., see Persat, N. 335
Jay, J.P., see Zoll, S. 231
Jędryka, E., M. Wójcik, S. Nadolski, T. Stobiecki and M. Czapkiewicz, Structural studies in Co/Zr multilayers using NMR 38
Jergel, M., V. Holý, E. Majková, Š. Luby and R. Senderák, Interface roughness correlation in tungsten/silicon multilayers 117
Jergel, M., see Majkova, E. 415
Jiang, S.S., see Feng, J.W. 239
Jiang, S.S., see Feng, J.W. 241
Jiang, S.S., see Pan, F.M. 49
Jimbo, M., see Imada, R. 367
Jin, G.J., see Feng, J.W. 239
Jin, G.J., see Feng, J.W. 241
Jin, G.J., see Pan, F.M. 49
Johansson, B., see Hjortstam, O. 85
Johansson, B., see Niklasson, A.M.N. 128
Johnson, M., Spin injection in metals: the bipolar spin transistor 321
Johnson, M.T., see Lenssen, K.-M.H. 63
Joo, S.-K., see Min, K.-I. 375
Jungblut, R., see de Vries, J.J. 257
Jyoko, Y., S. Kashiwabara and Y. Hayashi, Preparation and characterization of electrodeposited Pt/Co multilayers 35

Kakuno, E.M., see Mosca, D.H. 391
Kamijo, A., Facet growth in Fe/Cr(110) superlattices 137
Kang, S.S., see Feng, J.W. 239
Kang, S.S., see Feng, J.W. 241
Kanno, T., see Oikawa, S. 73
Kashiwabara, S., see Jyoko, Y. 35
Kasyutich, O.I., see Fedosyuk, V.M. 345
Katayama, T., W. Geerts, Y. Suzuki, D. Fujitani and N. Okuzawa, Oscillation of magneto-optical Kerr effect in Co ultra-thin films 171
Katayama, T., Y. Suzuki and W. Geerts, Magneto-optical transition due to a formation of quantum well states in magnetic ultra-thin films and multilayers 158
Katsumata, K., see Yamazaki, H. 135
Kawaguchi, K., M. Sohma and Y. Oosawa, Magnetic properties of Fe/EuO multilayered films 235
Kawawake, Y., see Sakakima, H. 405
Kazantsev, V.A., see Ustinov, V.V. 227
Kelly, P.J., see Schep, K.M. 385
Keune, W., see Kim, W.S. 191
Keune, W., see Richomme, F. 195
Keune, W., see Tappert, J. 58
Khalifeh, J., see Elmouhssine, O. 199
Khan, M.A., see Moraitis, G. 250
Khapikov, A.F., Interlayer exchange coupling and non-uniform magnetization processes in magnetic multilayers 130
Kim, S., see Gallego, J.M. 397

Kim, W.S., W. Kleemann, S. Neumann, J. Tappert, B. Scholz and W. Keune, Temperature dependence of magnetization processes in ferrimagnetic bilayers Tb/Fe 191
Kim, W.S., see Tappert, J. 58
Kirillova, M.M., see Ustinov, V.V. 179
Kirschner, J., see Shen, J. 104
Kläsges, R., see Carbone, C. 259
Kleemann, W., see Kim, W.S. 191
Klose, F., see Tappert, J. 58
Kobayashi, Y., H. Sato, Y. Aoki, R. Loloee and W.P. Pratt Jr., Transport properties of Co/Cu(Mn) multilayers 362
Kobayashi, Y., S. Nasu, T. Emoto and T. Shinjo, ^{197}Au Mössbauer study of Au/M (M = Fe, Co, Ni) multilayers 45
Kobayashi, Y., see Sato, H. 247
Kociński, J., Spatially modulated gyration tensor in MnSe/ZnTe superlattice 186
Kociński, J., see Wierzbicki, M. 184
Koeman, N.J., see Temst, K. 109
Kohlhepp, J. and F.J.A. den Broeder, Magnetic coupling in sputtered Fe/Si-type multilayers 261
Kok, K.Y., M.J. Hall and J.A. Leake, Microstructural characterisation of Co/Cu multilayers using X-ray diffraction 51
Kolb, E., M.J. Walker, E. Vélu, M.A. Howson, P. Veillet, D. Greig, J.P. Renard and C. Dupas, Giant magnetoresistance of dissymmetrical Co/Au multilayers 377
Kolb, E., see Xu, J. 379
Kools, J.C.S., see Lenssen, K.-M.H. 63
Kortright, J.B., Status and limitations of multilayer X-ray interference structures 271
Kravtsov, E.A., see Ustinov, V.V. 337
Krishnan, R., M. Seddat, M. Porte and M. Tessier, Magnetic and magneto-optical properties of Co_xNi_{1-x}/Au multilayers 167
Krishnan, R., see Boyle, J.W. 33
Krishnan, R., see Fnidiki, A. 41
Krishnan, R., see de Azevedo, M.M.P. 357
Krüger, P., O. Elmouhssine, C. Demangeat and J.C. Parlebas, Magnetic structure of bct manganese in the bulk and at the (001) surface 91
Krüger, P., see Elmouhssine, O. 199
Krüger, S.E., see Richter, J. 433
Kubrakov, N.F., see Atkinson, R. 169
Kudrnovský, J., V. Drchal, I. Turek, M. Šob and P. Weinberger, Interlayer magnetic coupling: effect of disorder in spacer 245
Kunnen, E., see Gladyszewski, G. 381

Labat, S., see Thomas, O. 31
Laidler, H., B.J. Hickey, T.P.A. Hase, B.K. Tanner, R. Schad and Y. Bruynseraede, Effect of annealing on the roughness and GMR of Fe/Cr multilayers 332
Laidler, H., see Pape, I. 373
Lang, P., L. Nordström, K. Wilderberger, R. Zeller and P.H. Dederichs, Ab-initio calculations of the interlayer exchange coupling in Co/Cu 229
Langer, G., see Daróczi, L. 417
Langer, J., R. Mattheis, S. Schmidt, St. Se. Senz and T. Zimmermann, Unexpected growth of GMR multilayers: ⟨111⟩ in-plane texture and grain bundling in 5 nm $Fe/(Co/Cu)_{24}$ 19
Lassri, H., see Fnidiki, A. 41
Lauriat, J.P., see Barbara, A. 111
Leake, J.A., see Hall, M.J. 119
Leake, J.A., see Kok, K.Y. 51
Lebertois, J.P., see Richomme, F. 181
Lederman, D., see Gallego, J.M. 397
Lefebvre, S., see Michel, A. 23
Lefebvre, S., see Schad, R. 339
Lenczowski, S.K.J., see van Alphen, E.A.M. 29
Lenssen, K.-M.H., J.C.S. Kools, A.E.M. De Veirman, J.J.T.M. Donkers, M.T. Johnson, A. Reinders and R. Coehoorn, MBE-grown spin valves 63
Lesmes, F., see Prados, C. 369
Li, D., see Bader, S.D. 153
Lin, H.J., see Chakarian, V. 265
Lin, M.-T., see Shen, J. 104
Lo, C.-K., see Nazir, Z.H. 435
Lobov, I.D., see Ustinov, V.V. 179
Lodder, J.C., see Meng, Q. 296
Lodder, J.C., see Tsutsumi, K. 327
Lodder, J.C., see Van Drent, W.P. 309
Loloee, R., see Kobayashi, Y. 362
Lopušník, R., see Bland, J.A.C. 177
Lopušník, R., see Nývlt, M. 175
Lu, M., see Feng, J.W. 239
Luby, S., see Majkova, E. 415
Luby, Š., see Jergel, M. 117

Maekawa, S. and J. Inoue, Spin-dependent transport in magnetic nanostructures 315
Maekawa, S., see Itoh, H. 343
Maevskii, V.M., see Ustinov, V.V. 179
Majkova, E., B. George, C. Bellouard, S. Luby, M. Jergel, R. Senderak and M. Babinsky, Thermal stability of Co/Si/W/Si multilayers 415
Majková, E., see Jergel, M. 117
Makhnev, A.A., see Ustinov, V.V. 179
Maletta, H., see Tappert, J. 58
Mamy, R., see Raquet, B. 197
Mangin, Ph., see Dufour, C. 425
Marchal, C., see Piraux, L. 317
Marchal, G., see Dufour, C. 425
Marlière, C., B.N. Engel and C.M. Falco, Influence of a non-magnetic interlayer on the magnetic anisotropy of ultra-thin Co sandwiches 209
Marty, A., see Thomas, O. 31
Maruyama, I., see Imada, R. 367
Masharova, I.S., see Okulov, V.I. 394
Matsumoto, T., see Umeda, K. 75

Matsuyama, K., H. Asada, S. Ikeda and I. Chida, Magnetoresistance behavior in microfabricated trilayer strip pattern 301
Mattheis, R., see Langer, J. 19
Mattoso, N., see Mosca, D.H. 391
Mazur, V., see Georgescu, V. 27
Mazzaro, I., see Mosca, D.H. 391
McMorrow, D.F., see Goff, J.P. 263
Meersschaut, J., see Swinnen, B. 71
Mégy, A., see Train, C. 87
Mégy, R., see Bardou, N. 139
Megy, R., see Bounouh, A. 233
Meigs, G., see Chakarian, V. 265
Meng, Q., W.P. van Drent, J.C. Lodder and Th.J.A. Popma, Curie temperature dependence of magnetic properties of CoNi/Pt multilayer films 296
Mény, C., see Persat, N. 335
Meny, C., see Zoll, S. 231
Mertig, I., see Takanashi, K. 237
Mibu, K., T. Nagahama and T. Shinjo, Magnetoresistance studies of multilayers including hard magnetic CoSm layers 299
Mibu, K., see Hosoito, N. 325
Michel, A., G.Z. Pan, V. Pierron-Bohnes, P. Vennéguès and M.C. Cadeville, High resolution transmission electron microscopy studies of Co/Ru bilayers 25
Michel, A., V. Pierron-Bohnes, S. Lefebvre, M. Bessière and H. Fischer, Stabilization of the fcc Co structure in Co/Mn multilayers with very thin Mn layers 23
Miliyaev, M.A., see Ustinov, V.V. 337
Milyaev, M.A., see Ustinov, V.V. 227
Min, K.-I., S.-K. Joo and K.-H. Shin, Giant magnetoresistance of Co/Cu, NiFeCo/Cu, and NiFe/Cu multilayers sputter-deposited on Cu/Si(111) substrates 375
Minin, V.I., see Ustinov, V.V. 179
Minin, V.I., see Ustinov, V.V. 227
Mirbt, S., see Niklasson, A.M.N. 128
Missana, T., C.N. Afonso, A.K. Petford-Long and R.C. Doole, The role of structure in the interfacial reactions of Bi and Sb 281
Mitani, S., K. Takanashi, H. Nakajima, K. Sato, R. Schreiber, P. Grünberg and H. Fujimori, Structural and magnetic properties of Fe/noble metal monatomic multilayers equivalent to $L1_0$ ordered alloys 7
Mitani, S., see Fujimori, H. 311
Mizubayashi, H., see Yamaguchi, T. 279
Mokrani, A., see Elmouhssine, O. 199
Mokrani, A., see Noguera, A. 21
Monsma, D., see Tsutsumi, K. 327
Moraitis, G., M.A. Khan, H. Dreyssé and C. Demangeat, Spin-flop transition in Fe_nCr_m superlattices 250
Morawe, C., see Thomson, T. 89
Mosca, D.H., N. Mattoso, E.M. Kakuno, W.H. Schreiner, I. Mazzaro and S.R. Teixeira, Influence of Fe and Cu seed layers on the magnetoresistance in Fe/Cu superlattices grown on Si(111) and CaF_2(111)/Si(111) 391
Moshchalkov, V.V., see Almeida, B.G. 399
Moshchalkov, V.V., see Schad, R. 339
Moshchalkov, V.V., see Schad, R. 341
Muñoz, M.C., see Pérez-Díaz, J.L. 165
Muramatsu, M., see Teraoka, Y. 413
Myrtle, K., see Heinrich, B. 215

Nabiyouni, G. and W. Schwarzacher, Dependence of GMR on crystal orientation in electrodeposited Co–Ni–Cu/Cu superlattices 355
Nabiyouni, G., see Bakonyi, I. 347
Nadolski, S., see Jędryka, E. 38
Nagahama, T., see Mibu, K. 299
Nakagawa, K., see Umeda, K. 75
Nakajima, H., see Mitani, S. 7
Nasu, S., see Kobayashi, Y. 45
Nawate, M., M. Itogawa and S. Honda, Pseudo-granular giant magnetoresistance in NiFe/Ag multilayers 383
Nazir, Z.H., C.-K. Lo and M. Hardiman, Magnetization of ultra thin Fe deposits on Si(111) and Si(100) 435
Neumann, S., see Kim, W.S. 191
Niklasson, A.M.N., S. Mirbt, H.L. Skriver and B. Johansson, Magnetic fingerprints of quantum well states in bcc (001) $Fe/Cu_N/Fe$ trilayers 128
Nishinaga, T., see Tanaka, M. 276
Nittono, O., see Sugawara, A. 151
Nittono, O., see Sugiyama, T. 143
Noguera, A., S. Bouarab, A. Mokrani, C. Demangeat and H. Dreyssé, Very thin Mn films on fcc Co(001) 21
Nordström, L., see Lang, P. 229
Nývlt, M., J. Ferré, J.P. Jamet, P. Houdy, P. Boher, Š. Višňovský, R. Urban and R. Lopušník, Magneto-optical effects in a stack of magnetic multilayer-dielectric films 175
Nývlt, M., see Bland, J.A.C. 177

Oesterholt, R., see De Boeck, J. 148
O'Grady, K., S.J. Greaves and S.M. Thompson, Exchange anisotropy effects in NiFe layers and NiFe/Cr multilayers 253
Oguri, A. and H. Ishii, Correlation effects in the transport through a few quantum levels 389
Ohnuma, S., see Fujimori, H. 311
Oikawa, S., T. Kanno, S. Iwata and S. Tsunashima, Structure and magnetic anisotropy in MBE-grown Au/Co/Au sandwich films on MgO substrate 73
Okada, A., see Uchiyama, K. 427
Okada, A., see Uchiyama, K. 429
Okulov, V.I., E.A. Pamyatnykh, V.V. Ustinov and I.S. Masharova, Ultrasound absorption by electrons in metallic magnetic multilayers and its correlation with giant magnetoresistance 394
Okuno, S.N., see Inomata, K. 219
Okuzawa, N., see Katayama, T. 171
Ono, T., see Hosoito, N. 325
Ono, T., see Shinjo, T. 11
Oomi, G., Y. Uwatoko, T. Sakai, K. Takanashi and H. Fujimori, Anomalous pressure dependence of giant magnetoresistance in magnetic superlattice 402

Oosawa, Y., see Kawaguchi, K. 235
Ortega, M.D., see Raquet, B. 197
O'Shea, M.J. and P. Perera, Influence of nanostructure on magnetic properties of strong anisotropy systems 141
Ounadjela, K., L. Zhou, R. Stamps, M. Hehn, Z. Zhang, P. Wigen and J. Gregg, Interlayer magnetic coupling in Co/Ru/CoAg and Co/Cu/CoAg trilayer films: effect of Ag impurities on the exchange coupling 267
Ounadjela, K., see Piraux, L. 317
Ounadjela, K., see Zoll, S. 231
Ousset, J.C., see Raquet, B. 197

Palmstrøm, C.J., see Tanaka, M. 276
Pamyatnykh, E.A., see Okulov, V.I. 394
Pan, F.M., J.W. Feng, G.J. Jin, A. Hu and S.S. Jiang, X-ray diffraction study of W/Ti quasiperiodic superlattices 49
Pan, F.M., see Feng, J.W. 239
Pan, F.M., see Feng, J.W. 241
Pan, G.Z., see Michel, A. 25
Panissod, P., see Persat, N. 335
Panissod, P., see Zoll, S. 231
Pape, I., T.P.A. Hase, B.K. Tanner, H. Laidler, C. Emmerson, T. Shen and B.J. Hickey, Giant magnetoresistance and interface structure of Cu/Co multilayers grown by MBE on Si (111) substrates with copper-silicide buffers 373
Parker, M.R., see Hossain, S.A. 303
Parlebas, J.C., see Elmouhssine, O. 199
Parlebas, J.C., see Krüger, P. 91
Patel, M., T. Fujimoto, A. Ercole, C. Daboo and J.A.C. Bland, Neutron reflectivity of single FeNi/Cu/Co trilayer spin valves 53
Patel, M., see Ercole, A. 121
Patel, M., see Fujimoto, T. 365
Perera, P., see O'Shea, M.J. 141
Pérez-Díaz, J.L. and M.C. Muñoz, Symmetry dependence of quantum-well states in thin metallic overlayers 165
Persat, N. and A. Dinia, Structure and magnetic anisotropy in Co(hcp)/Cu sandwiches 371
Persat, N., A. Dinia, J.P. Jay, C. Mény and P. Panissod, Structure and giant magnetoresistance in Co/Cu sandwiches with thin Ag layers at the interfaces 335
Petford-Long, A.K., see Baker, A.M. 83
Petford-Long, A.K., see Ho, E.M. 65
Petford-Long, A.K., see Missana, T. 281
Piecuch, M., see Barbara, A. 111
Pierron-Bohnes, V., see Michel, A. 23
Pierron-Bohnes, V., see Michel, A. 25
Pinkvos, H., see Bauer, E. 1
Piraux, L., S. Dubois, C. Marchal, J.M. Beuken, L. Filipozzi, J.F. Despres, K. Ounadjela and A. Fert, Perpendicular magnetoresistance in Co/Cu multilayered nanowires 317
Pirkle, B.H., see Hossain, S.A. 303
Pollard, R.J., see Tatnall, C.J. 61
Popma, Th.J.A., see Meng, Q. 296
Poppa, H., see Bauer, E. 1
Porte, M., see Krishnan, R. 167
Potter, C.D., see Schad, R. 339
Potter, C.D., see Schad, R. 341
Prados, C., D. García, F. Lesmes, J.J. Freijo and A. Hernando, Extraordinary anisotropic magnetoresistance effect at room temperature in Co/Ni multilayers 369
Pratt Jr., W.P., see Kobayashi, Y. 362
Prinz, G.A., see Chakarian, V. 265
Prosser, V., see Bland, J.A.C. 177

Radnóczi, Gy., see Daróczi, L. 417
Rainford, B.D., see Tomka, G.J. 431
Raoux, D., see Barbara, A. 111
Raquet, B., M.D. Ortega, A. Sdaq, R. Mamy, M. Goiran, A.R. Fert, C. Armand and J.C. Ousset, Magneto-optical studies of magnetization reversal of an Au/Co/Au sandwich 197
Rasing, T., see Groot Koerkamp, M. 213
Ravet, M.F., see Bardou, N. 139
Ravinder, D., see Fedosyuk, V.M. 345
Ravinder, D., see Fedosyuk, V.M. 77
Rehm, Ch., see Tappert, J. 58
Reinders, A., see Lenssen, K.-M.H. 63
Renard, J.P., see Kolb, E. 377
Richomme, F., B. Scholz, R.A. Brand, W. Keune and J. Teillet, Modulated structure and magnetic properties of UHV deposited Fe/Tb multilayers 195
Richomme, F., J. Teillet, A. Fnidiki, J.P. Lebertois, P. Auric and P. Veillet, Magnetic anisotropy in amorphous Fe/Tb multilayers 181
Richter, J., C. Gros, S.E. Krüger, W. Wenzel and J. Schulenburg, Phase transitions in two-layer spin 1/2 antiferromagnets with competing intra-layer and inter-layer couplings 433
Riedi, P.C., see Thomson, T. 89
Rivas, J., see Riveiro, J.M. 243
Riveiro, J.M., J.P. Andrés and J. Rivas, Magnetic properties of sputtered Co–Sm multilayers 243
Robaut, F., see González, J.M. 145
Roberts, D.J. and G.A. Gehring, Surface magnetic anisotropies in ultrathin magnetic films 293
Robinson, S.J., J. Castro and G.A. Gehring, Morphology of domain walls in in-plane magnetized thin films with exchange and dipolar interactions 133
Romashev, L.N., see Ustinov, V.V. 179
Romashev, L.N., see Ustinov, V.V. 227
Romashev, L.N., see Ustinov, V.V. 337
Rose, P., see Speakman, J. 411
Rothberg, G.M., see Tanaka, M. 306
Rots, M., see Swinnen, B. 71
Rousseaux, F., see Bardou, N. 139
Rücker, U., S. Demokritov, R.R. Arons and P. Grünberg, Antiferromagnetic interlayer coupling in epitaxial Fe/EuS (100) bilayers 269
Ryazantsev, A.A., see Vas'kovskij, V.O. 291

Saint-Lager, M.C., see Barbara, A. 111
Saito, Y., see Inomata, K. 219
Saito, Y., see Sato, H. 247
Sakai, T., see Oomi, G. 402
Sakakima, H., Y. Irie, Y. Kawawake and M. Satomi, Spin-valve multilayers of [H/Cu/S] (H = Co, Co–Pt, or Co–Fe, S = NiFeCo) and memory cells 405
Sarma, D.D., see Carbone, C. 259
Sato, H., Y. Kobayashi, Y. Aoki, Y. Saito and K. Inomata, Oscillations of Hall resistivity and thermoelectric power in Co(Fe)/Cu multilayers 247
Sato, H., see Kobayashi, Y. 362
Sato, K., see Mitani, S. 7
Satomi, M., see Sakakima, H. 405
Schad, R., J. Barnas, P. Beliën, G. Verbanck, C.D. Potter, H. Fischer, S. Lefebvre, M. Bessiere, V.V. Moshchalkov and Y. Bruynseraede, Influence of different kinds of interface roughness on the giant magnetoresistance in Fe/Cr superlattices 339
Schad, R., P. Beliën, J. Barnas, G. Verbanck, C.D. Potter, G. Gladyszewski, V.V. Moshchalkov and Y. Bruynseraede, On the Fe thickness dependence of the giant magnetoresistance in epitaxial Fe/Cr superlattices 341
Schad, R., see Almeida, B.G. 399
Schad, R., see Gladyszewski, G. 381
Schad, R., see Laidler, H. 332
Schep, K.M., P.J. Kelly and G.E.W. Bauer, Ballistic giant magnetoresistance 385
Scheurer, F., see Garreau, G. 81
Schmidt, S., see Langer, J. 19
Schmidthals, C., see Shen, J. 104
Schneider, C., see Heinrich, B. 215
Schneider, C.M., Perspectives in element-specific magnetic domain imaging 94
Schneider, C.M., see Shen, J. 104
Scholz, B., see Kim, W.S. 191
Scholz, B., see Richomme, F. 195
Schönenberger, C., see van Alphen, E.A.M. 29
Schorsch, V., see Garreau, G. 81
Schreiber, F., see Cowen, J.A. 163
Schreiber, R., see Mitani, S. 7
Schreiber, R., see Takanashi, K. 237
Schreiner, W.H., see Mosca, D.H. 391
Schudelaro, A.A.P., see de Vries, J.J. 257
Schulenburg, J., see Richter, J. 433
Schuller, I.K., see Gallego, J.M. 397
Schuller, Y., see Almeida, B.G. 399
Schumann, F.O., see Buckley, M.E. 211
Schwarzacher, W., see Bakonyi, I. 347
Schwarzacher, W., see Nabiyouni, G. 355
Sdaq, A., see Raquet, B. 197
Seddat, M., see Krishnan, R. 167
Semerikov, A.V., see Ustinov, V.V. 179
Senderák, R., see Jergel, M. 117
Senderak, R., see Majkova, E. 415
Senz, St. Se., see Langer, J. 19
Shen, J., M.-T. Lin, J. Giergiel, C. Schmidthals, M. Zharnikov, C.M. Schneider and J. Kirschner, Annealing effect on morphology and magnetism of ultrathin films of Fe and Ni on Cu(100) 104
Shen, T., see Pape, I. 373
Shen, T.-H., see Emmerson, C.M. 15
Shin, K.-H., see Min, K.-I. 375
Shinjo, T. and T. Ono, Magnetoresistance of multilayers on microstructured substrates 11
Shinjo, T., see Emoto, T. 47
Shinjo, T., see Hosoito, N. 325
Shinjo, T., see Kobayashi, Y. 45
Shinjo, T., see Mibu, K. 299
Shreder, E.I., see Ustinov, V.V. 179
Skriver, H.L., see Niklasson, A.M.N. 128
Smirnov-Rueda, R., see González, J.M. 145
Šob, M., see Kudrnovský, J. 245
Sohma, M., see Kawaguchi, K. 235
Somekh, R.E., see Conyers, J.S. 419
Somekh, R.E., see Hall, M.J. 119
Somekh, R.E., see Speakman, J. 411
Song, W., see Yamaguchi, T. 279
Sousa, J.B., see Almeida, B.G. 399
Sousa, J.B., see de Azevedo, M.M.P. 357
Spaepen, F., Effect of stress on the driving force for interdiffusion in amorphous Si–Ge multilayers 407
Speakman, J., P. Rose, J.A. Hunt, N. Cowlam, R.E. Somekh and A.L. Greer, The study of self-diffusion in crystalline and amorphous multilayer samples by neutron reflectometry 411
Spilsbury, D., see Hong, J.K. 55
Springholz, G., see Wilamowski, Z. 207
Stamps, R., see Ounadjela, K. 267
Stobiecki, T., see Jędryka, E. 38
Stoeffler, D. and F. Gautier, Theoretical study of thin Fe films deposited on a Cr(001) substrate: step-induced extended defects 114
Stoeffler, D., see Zoll, S. 231
Strijkers, G.J., see Swagten, H.J.M. 329
Sugawara, A., Y. Haga and O. Nittono, Self-alignment of metallic nanowires in CaF_2-based composite films grown on stepped NaCl substrates 151
Sugiyama, T. and O. Nittono, Granular alloy type giant magnetoresistance of discontinuous Co/continuous Cu multilayered film 143
Sumanasekera, G.U., see Baxter, D.V. 359
Suzuki, Y., see Katayama, T. 171
Suzuki, Y., see Katayama, T. 158
Svalov, A.V., see Vas'kovskij, V.O. 291
Swagten, H.J.M., G.J. Strijkers, M.M.H. Willekens and W.J.M. de Jonge, Analysis of scattering lengths in Co/Cu spin-valves using a Ru barrier 329
Swinnen, B., J. Dekoster, J. Meersschaut, S. Demuynck, S. Cottenier and M. Rots, A perturbed angular correlation study of Fe/Co multilayers on $(1\bar{1}0)$-GaAs 71
Szunyogh, L., see Újfalussy, B. 255
Szymański, B., see Baszyński, J. 79

Takanashi, K., R. Schreiber, I. Mertig and P. Grünberg, Interlayer exchange coupling of Fe across CuAu alloys 237

Takanashi, K., see Mitani, S. 7
Takanashi, K., see Oomi, G. 402
Tanaka, M., C.J. Palmstrøm, M. Tsuda and T. Nishinaga, Epitaxial semimetal (ErAs)/semiconductor (III–V) heterostructures: negative differential resistance in novel resonant tunneling structures with an ErAs quantum well 276
Tanaka, M., J.P. Harbison and G.M. Rothberg, MnAs/NiAs magnetic multilayers on GaAs grown by molecular beam epitaxy 306
Tanner, B.K., see Laidler, H. 332
Tanner, B.K., see Pape, I. 373
Tappert, J., F. Klose, Ch. Rehm, W.S. Kim, R.A. Brand, H. Maletta and W. Keune, Neutron reflectivity on Tb/Fe multilayers 58
Tappert, J., see Kim, W.S. 191
Tarnóczi, T., see Bakonyi, I. 347
Tatara, G., see Yamazaki, H. 135
Tatnall, C.J., R.J. Pollard and P.J. Grundy, Microstructure and magnetic properties of highly oriented Co/Pt multilayers sputter-deposited on (111) silicon 61
Teillet, J., see Fnidiki, A. 41
Teillet, J., see Richomme, F. 181
Teillet, J., see Richomme, F. 195
Teixeira, S.R., see Mosca, D.H. 391
Temst, K., M.J. Van Bael, D.G. de Groot, N.J. Koeman, R.P. Griessen, B. Wuyts, C. Van Haesendonck and Y. Bruynseraede, Atomic force microscopy and X-ray diffraction study of surface and interface roughness in Nb/Cu multilayers 109
Temst, K., see Gladyszewski, G. 381
Teraoka, Y. and M. Muramatsu, Time evolution of the concentration profile in binary multilayers 413
Tessier, M., see Krishnan, R. 167
Thomas, O., S. Labat, L. Barallier, A. Charaï, C. Alfonso, K. Badawi, B. Gilles and A. Marty, Influence of the microstructure on the residual strains in (111) Au/Ni multilayers 31
Thompson, S.M., see O'Grady, K. 253
Thomson, T., P.C. Riedi, C. Morawe and H. Zabel, ^{59}Co NMR investigations of sputtered Co/Cu (100) and (111) multilayers 89
Toliński, T., see Baszyński, J. 79
Tomka, G.J., B.D. Rainford, P.A.J. de Groot, M. Ciria, R.C.C. Ward and M.R. Wells, Magnetic properties of Ho/Tm superlattices 431
Tomka, G.J., see Arnaudas, J.I. 421
Tonnerre, J.M., see Barbara, A. 111
Tóth, J., see Bakonyi, I. 347
Tóth-Kádár, E., see Bakonyi, I. 347
Totland, K., see Heinrich, B. 215
Train, C., C. Fermon, C. Chappert, A. Mégy, P. Veillet and P. Beauvillain, Polarized neutron reflection investigation of a layered magnetic order in thick Co layers on Au(111) 87
Train, C., see Bounouh, A. 233
Trygg, J., see Hjortstam, O. 85
Tsakiropoulos, P., see Coast-Smith, L. 17
Tsuda, M., see Tanaka, M. 276
Tsunashima, S., see Imada, R. 367
Tsunashima, S., see Oikawa, S. 73
Tsunshima, S., Magneto-optical applications of magnetic multilayers 283
Tsutsumi, K., P. de Haan, M. Eisenberg, D. Monsma and J.C. Lodder, Giant magnetoresistance in Co/Cu multilayers sputtered with Kr 327
Turek, I., see Kudrnovský, J. 245

Uchiyama, K., I. Ishida, E. Hirota, K. Hamada and A. Okada, Saturation magnetic moments of Co/Cr multilayers 427
Uchiyama, K., I. Ishida, K. Hamada, E. Hirota, A. Okada and T. Hayashi, Saturation magnetic moments of Co/Mn multilayers 429
Ueda, Y., N. Hataya and H. Zaman, Magnetoresistance effect of Co/Cu multilayer film produced by electrodeposition method 350
Ueda, Y., S. Ikeda, S. Hama and A. Yamada, Magnetic properties and magnetoresistance of Fe/Cr multilayer films prepared by vapor deposition and electrodeposition 353
Újfalussy, B., L. Szunyogh and P. Weinberger, Fully relativistic spin-polarized description of interface exchange coupling for Fe multilayers in Au(100) 255
Umeda, K., Y. Fujiwara, T. Matsumoto, K. Nakagawa and A. Itoh, Contribution of stress-induced magnetic anisotropy to perpendicular magnetic anisotropy for Co/Pd and Co/Pt multilayers 75
Urban, R., see Bland, J.A.C. 177
Urban, R., see Nývlt, M. 175
Usadel, K.D., see Hucht, A. 423
Ustinov, V.V., E.A. Kravtsov, L.N. Romashev and M.A. Miliyaev, Spin-dependent scattering parameters of MBE-grown Fe/Cr multilayers with non-collinear magnetic ordering 337
Ustinov, V.V., L.N. Romashev, N.G. Bebenin, V.I. Minin, V.A. Kazantsev and M.A. Milyaev, Giant magnetoresistance and magnetization of Fe/Cr superlattices with non-collinear magnetic ordering and exchange-uniaxial anisotropy 227
Ustinov, V.V., M.M. Kirillova, I.D. Lobov, V.M. Maevskii, A.A. Makhnev, V.I. Minin, L.N. Romashev, A.K. Dehl', A.V. Semerikov and E.I. Shreder, Magneto-optical study of the non-collinear magnetic structure of Fe/Cr superlattices 179
Ustinov, V.V., see Okulov, V.I. 394
Uwatoko, Y., see Oomi, G. 402
Uzdin, V.M. and N.S. Yartseva, Quantum wells in trilayers: dependence of the properties on the thickness of magnetic and nonmagnetic layers 193
Uzdin, V.M., see Demangeat, C. 202

Van Alphen, E.A.M., A.H.J. Colaris, S.K.J. Lenczowski, C. Schönenberger and W.J.M. de Jonge, NMR study of

the structural properties of electrodeposited Co/Cu multilayers 29
Van Bael, M.J., see Temst, K. 109
Van den Berg, H.A.M., see Zoll, S. 231
van der Laan, G., Magnetic dichroism in X-ray absorption spectroscopy 99
Van Drent, W.P., M.D. Bijker and J.C. Lodder, The effect of stress and magnetostriction on the anisotropy of CoNi/Pt multilayers 309
van Drent, W.P., see Meng, Q. 296
Van Esch, A., see De Boeck, J. 148
Van Haesendonck, C., see Temst, K. 109
Van Hoof, C., see De Boeck, J. 148
Vas'kovskij, V.O., A.V. Svalov and A.A. Ryazantsev, Amorphous gadolinium–cobalt films with in-plane anisotropy for magnetoresistive sandwiches 291
Vega, A., see Elmouhssine, O. 199
Veillet, P., see Bardou, N. 139
Veillet, P., see Bounouh, A. 233
Veillet, P., see Kolb, E. 377
Veillet, P., see Richomme, F. 181
Veillet, P., see Train, C. 87
Veillet, P., see Xu, J. 379
Vélu, E., see Kolb, E. 377
Vennéguès, P., see Michel, A. 25
Venus, D., see Heinrich, B. 215
Verbanck, G., see Gladyszewski, G. 381
Verbanck, G., see Schad, R. 339
Verbanck, G., see Schad, R. 341
Vescovo, E., see Carbone, C. 259
Višňovský, Š., see Bland, J.A.C. 177
Višňovský, Š., see Nývlt, M. 175

Walker, M.J., see Kolb, E. 377
Walker, M.J., see Xu, J. 69
Ward-Close, C.M., see Coast-Smith, L. 17
Ward, R.C.C., see Arnaudas, J.I. 421
Ward, R.C.C., see Goff, J.P. 263
Ward, R.C.C., see Tomka, G.J. 431
Weinberger, P., see Kudrnovský, J. 245
Weinberger, P., see Újfalussy, B. 255
Weller, D., see Bounouh, A. 233
Wells, M.R., see Arnaudas, J.I. 421
Wells, M.R., see Goff, J.P. 263
Wells, M.R., see Tomka, G.J. 431
Wenzel, W., see Richter, J. 433
Whitton, E.D., see Hall, M.J. 119
Wierzbicki, M. and J. Kociński, Light propagation in the helical antiferromagnetic phase of *x*-MnSe/ZnTe superlattice 184
Wigen, P., see Ounadjela, K. 267
Wilamowski, Z., W. Jantsch and G. Springholz, ESR investigations of interfaces between antiferromagnets and semiconductors 207
Wilderberger, K., see Lang, P. 229
Willekens, M.M.H., see Swagten, H.J.M. 329
Wills, J.M., see Hjortstam, O. 85
Wiser, N., see Xu, J. 69
Wójcik, M., see Jędryka, E. 38
Wurm, K., see Bauer, E. 1
Wuyts, B., see Temst, K. 109

Xu, J., B.J. Hickey, M.A. Howson, D. Greig, M.J. Walker and N. Wiser, Enhanced magnetoresistance of Co/Cu(111) wedge superlattices grown by MBE 69
Xu, J., M.A. Howson, B.J. Hickey, D. Greig, P. Veillet and E. Kolb, Giant magnetoresistance and superparamagnetism in Co/Au multilayers 379

Yamada, A., see Ueda, Y. 353
Yamaguchi, A., see Yamaguchi, T. 279
Yamaguchi, T., H. Mizubayashi, Y. Yoshihara, W. Song, A. Yamaguchi and R. Yamamoto, Effects of annealing on the elastic properties of Ag/Pd multilayer films 279
Yamamoto, R., see Yamaguchi, T. 279
Yamazaki, H., G. Tatara, K. Katsumata, K. Ishibashi and Y. Aoyagi, Magnetic relaxation in Ni wires 135
Yartseva, N.S., see Uzdin, V.M. 193
Yoshihara, Y., see Yamaguchi, T. 279
Yusu, K., see Inomata, K. 219

Zabel, H., see Thomson, T. 89
Zaman, H., see Ueda, Y. 350
Zeller, R., see Lang, P. 229
Zhang, Z., see Ounadjela, K. 267
Zharnikov, M., see Shen, J. 104
Zhou, L., see Ounadjela, K. 267
Zimmermann, T., see Langer, J. 19
Zoll, S., H.A.M. Van den Berg, J.P. Jay, H.J. Elmers, C. Meny, P. Panissod, D. Stoeffler, A. Dinia and K. Ounadjela, Coupling mechanism in Co/Ru sandwiches with thin spacers 231
Zvezdin, A.K., see Atkinson, R. 169
Zvezdin, A.K., see Dobrovitski, V.V. 205
Zvezdin, K.A., see Atkinson, R. 169

ELSEVIER

Journal of Magnetism and Magnetic Materials 156 (1996) 449

journal of magnetism and magnetic materials

Materials index to volume 156

Ag/Ge 359
Au 31
Au/Co 45
Au/Co/Au sandwich 73, 87, 197
Au/Fe 45
Au/Ni 31, 45

Be(1010) 85

Co 81, 415
Co on W(110) 1
Co wedge 158, 171
Co(hcp)/Cu 371
Co/Ag 239
Co-Al-O system 311
Co/Au 47, 209, 233, 379
Co/AuCu 357
Co/CoZr 79
Co/Cr 427
Co/Cr/Co trilayers 43
Co/Cu 19, 29, 51, 69, 89, 119, 143, 163, 209, 229, 257, 317, 329, 327, 335, 350, 371, 373, 375, 385, 402
Co/Cu films 211
Co/Cu on Si 15
Co/CuM/Co(001), M = Ni, Pd, Zn 245
Co/Cu/Mn 362
Co/Cu/NiFe/Cu 325
CoFe/Cu 247
Co/Mn 21, 23
Co/Ni 369
CoNi/Au 167
CoNiCu/Cu 355
CoNi/Pt 296
Co/Pd 75, 83
Co/Pt 27, 61, 75
Co/Ru 25, 231, 231
Co-silicide 15
CoSm 243, 299
Cr/Ag/Fe/Ag Fe wedge 177
Cu on W(110) 1
Cu/Co 259
CuCo alloy 77
Cu-silicide 15

ErAs 276
EuTe/PbTe 207

Fe 261, 435
Fe, bcc (001) 128
Fe, fcc 153
Fe wedge 153, 158
Fe/Au 7, 107, 255, 325
Fe/Ce(110) 137
Fe/Co 71
FeCo/Ag 67
FeCo/Mn/FeCo 265
Fe/Cr 65, 114, 137, 227, 250, 325, 332, 339, 341, 353, 385, 399, 402
Fe/Cu 104, 128, 391
Fe/CuAu/Fe 237
Fe/EuO 235
Fe/EuS(100) 269
Fe/Ir 111
FeNi/Co/Cu 53
FeNi/Cu/Co 365
Fe/Pt 7, 41
FeSi/SiFe 261
Fe/Tb 181

GaAs 148
GaAs substrate 306
GaMnAs 148
Gd/Co 291
Gd/Mo 224

Ho/Lu 421
Ho/Tm 431
Ho/Y 421

Kr sputtering 327

Mn 91, 429
MnAs 148, 306
Mn/Fe 91, 199
MnSe/ZnTe 186

Nb/Cu 109
Ni 31, 419
Ni wires 135
Ni/Ag 241
NiAs 306
Ni/Co 397
Ni/Cu 104
NiCu/Cu 347
NiFe/Ag 383
NiFeCo/Cu 303, 367, 375
NiFe/Cr 253
NiFe/Cu 375
Ni/Pt 33, 357
Ni/Zr 411, 419

Pt/Co 35

Si 261, 415
Si–Ge 407

Tb on fcc Co 81
Tb/Fe 58, 175, 191
Ti/Al 17

V 233

Zr 419

ELSEVIER

Journal of Magnetism and Magnetic Materials 156 (1996) 451–453

journal of magnetism and magnetic materials

Subject index to volume 156

Ab-initio calculations 229
Acoustic absorption 394
Amorphization 38, 417
Amorphous systems
– alloys 181, 291, 411
– films 291
Angular resolved Auger spectroscopy 215
Anisotropy 41, 73, 121, 137, 145, 167, 181, 211, 233, 239, 289, 291, 293, 375, 435
– exchange 253
– magnetic 75, 137, 419
– magnetocrystalline 293
– perpendicular 7, 75, 145, 209, 296, 371, 435
– stress-induced 75, 309
– surface 73, 167
– uniaxial 375
Annealing 65, 104, 119, 332, 353, 381
Antiferromagnetism 91, 184, 207, 433
Atom probe 83
Atomic diffusion 413
Auger spectroscopy 81, 215

Band theory 173, 289
Barkhausen volume 197
Bilayer 433
Bloch line 205
Brillouin light scattering 33, 121, 163
Bulk scattering 119

Chiral materials 189
Clusters 148
Coherent potential approximation 343
Columnar growth 151
Concentration profile 413
Conductance
– perpendicular 343
Correlated roughness 51
Coupling
– antiferromagnetic 65, 79, 207, 335
– ferromagnetic 65
– magneto-elastic 421
Curie temperature 296

Dichroism
– magnetic 94, 99, 265
– magnetic circular 265
– X-ray circular 21
Diffraction
– diffuse 51
– specular 51
Diffusion 407, 419
Diffusion couples 83
Dipole–dipole interaction 291
Disorder 245, 250
Disorder–order transition 433
Domain imaging 94
Domain walls 130, 133
– motion 197

Electric field gradients 71
Electrodeposition 27, 29, 35, 77, 345, 347, 350, 355
Electron diffraction
– low energy 81
Electron microscopy
– low energy 1
– spin polarized 1
– transmission 17, 19, 23, 25, 35, 281, 391
Electron scattering
– s–d 399
Electron states 107
Electronic structure 114, 259, 267, 385
Epitaxy 1, 425
Exchange coupling 179, 193, 215, 219, 224, 229, 239, 255, 257, 263, 265, 267, 269, 283
– bilinear 215, 231
– biquadratic 215, 231
– interface 255
– interlayer 1, 79, 207, 229, 233, 237, 239, 245, 247, 250, 257, 257, 259, 261, 362
– oscillatory 79
– temperature dependence 219

Facet growth 137
Ferrimagnetism 431
Ferromagnetism 89, 429, 431
Fibonacci sequence 49
Film morphology 327

Grain boundaries 83
– interdiffusion 281
Granular alloys 77, 345, 383
– insulated 311
Granular layers 377, 379
Grating 189

Hall effect 247, 397
Heat treatment 291
High pressures 402
Hyperfine fields 45, 71, 289

Interdiffusion kinetics 104, 281
Interface 31, 67, 71, 83, 109, 117, 128, 177, 207, 215, 357
Interface alloying 215
Interface magnetic states 207
Interface roughness 79, 109, 229, 287
Interface structure 202, 373
Interfacial rearrangements 357
Ion beam 61
Ion irradiation 381
Isotopes 411

Kerr ellipticity 158, 171, 191
Kerr rotation 158, 171
Kinetic roughening 137
Kondo effect 389

Laminates 17
Light wave propagation 184
Lorentz microscopy 43

Magnetic cluster 148
Magnetic fingerprints 128
Magnetic imaging 94, 197
Magnetic moments 99
– large 427
Magnetic properties 27, 104
Magnetic resonance 207

Magnetic structure 55
Magnetic superlattices 186
Magnetic transition 153, 421, 425
Magnetization 104, 130, 145, 337
– antiparallel 325
– curves 130
– induced 128
– perpendicular 87
– reversal 197
Magneto-optic media 309
Magneto-optical Faraday effect 175
Magneto-optical Kerr effect 104, 139, 153, 158, 173, 175, 177, 179, 191, 197, 209, 211, 233
Magneto-optical recording 283
Magneto-optics 81, 153, 167, 169, 171, 177, 189, 213, 283, 296
Magnetoresistance 65, 69, 287, 299, 315, 335, 350, 353, 359, 369, 373, 379, 381, 383, 391, 402, 405
– anisotropic 369
– CCP 11
– giant 11, 15, 1
– perpendicular 317
Magnetoresistive devices 369
Magnetostriction 67, 309, 425
MBE 15, 31, 63, 69, 209, 306, 399, 431
Memory elements 405
Metal/semiconductor/metal structure 219
Micromagnetism 145
Microstructure 31, 61, 65
Microstructured substrate 11
Microstructured system 135
Monatomic layer deposition 7
Mössbauer effect 41, 181, 195, 235
Mössbauer spectroscopy 45, 47
– conversion electron 191
Multilayers
– 3d–metal 429
Multistepped hysteresis 306

Nanolaminate 17
Nanoscale 123
Nanostructures 139
Nanowire 315, 317
Negative differential resistance 276
Neutron diffraction 263
Neutron reflectometry 53, 55
NMR 29, 38, 89, 335
Non-collinear order 227
Nucleation 151
Numerical modelling 51

Optical activity 186
Optical tensors 186
Order–disorder transformation 237
Ordered alloy 7

Parallel transport 387
Perturbed angular correlation 71
Phase diagram 153
Phase transitions 362, 421
– field-induced 191
Photoemission 259
Polarized neutron diffraction 325
Polarized neutron reflectometry 53, 87
Pressure effect 417
Pseudo-epitaxial growth 375

Quantum disorder 433
Quantum fluctuations 433
Quantum Monte Carlo effect 389
Quantum size effect 158, 171, 287
Quantum tunnelling 135, 141, 205
– macroscopic 145
Quantum wells 128, 153, 158, 165, 171, 193, 259
Quasiperiodic superlattices 49

Rare earth 81, 141, 263, 425
Rare earth superlattices 141, 181, 263, 421
Rare earth–transition metal compounds 181, 195, 243, 269
Reactive sputtering 311
Reflection electron microscopy 35
Reflectometry 55, 411
Relaxation
– magnetic 135
Relaxation process 413
Reorientation transition 423
Resistivity 357, 397
Resonance
– electron spin 207
RHEED 73
Roughening transition 133
Roughness 51, 133, 137, 229
Rutherford back-scattering 17

Sandwiches 335, 371
Scanning tunnelling microscopy 104
Scattering
– spin dependent 329
Scattering length 329
Second harmonic generation 213
Self-assembly 151
Self-diffusion 411
Semiconductor 148
Semimetal/semiconductor heterostructures 276
Size quantization 276
Solid state reaction 417
Solitons 205

Spectroscopy
– electron energy loss 17
– inverse photoemission 107
Spin accumulation 321
Spin glass 235
Spin injection 321
Spin polarization 47, 58, 199
Spin polarized neutron reflectometry 53, 55, 58
Spin relaxation 321
Spin scattering asymmetry 377
Spin transistor 321
Spin valve 53, 63, 121, 299, 301, 329, 365, 405
Spin wave resonance 241
Spinodal decomposition 279
SPLEEM 1
Sputter deposition 63, 89, 261, 311, 399
SQUID magnetometry 58
Stability 415
Stress 31, 309, 407, 419
Stress relaxation 407
Stripe domains 423
Structural analysis 38, 224, 371
Structural relaxation 407
Structure
– helical antiferromagnetic 184
Submicron 123
Superconductivity 123
Supermodulus effect 279
Superparamagnetism 77
Surface magnetism 202
Surface relaxation 85
Surface roughness 199, 202
Surface state 85
Surface structure 85, 202
Symmetry 165

Texture 19
Theory 387
Thermoelectric power 247
Thin films 199, 435
Torque magnetometry 27
Transport 321, 362, 399
Trilayer 128, 250, 365
Tunnelling 315
– resonant 276, 389
– spin dependent 311

Ultra-thin films 133, 177, 233, 429
Ultrasound absorption 394

V-groove 11
Vapor deposition 17
Vector magnetometry 265
Vertex correction 343
Viscosity 407

Weak localization 359

X-ray 332
X-ray absorption 99
X-ray diffraction 23, 27, 41, 49, 51, 235, 381, 391, 415
X-ray lithography 139
X-ray reflectance 117, 271, 391
X-ray scattering
– anomalous 111
– diffuse 117